

drives the pumps. There may be three separate pumps on the fill and test package 40 or two pumps, the low volume high pressure pump being able to operate both to add water to the pipeline 16 or as a dewatering pump to suck water from the pipeline 16, or just one pump. There are many changes in details that may be made such that water treating may be added, filters may be added, more than one pig may be used, methanol or other chemicals may be added between pigs, the pig may include tracking means to name some; however, changes in detail do not change the method as set forth and described.

What is claimed is:

1. A method of cleaning and or hydrostatic testing a pipeline between two subsea manifolds, one of said manifolds having a subsea pig launcher/receiver with a pig and the other having a subsea pig receiver comprising:

using a submersible vehicle (SV) to operate pumps on a fill and test package to force seawater behind said pig and move the pig from the pig launcher/receiver to the pig receiver; and

using said SV to pump more water into said pipeline to a test pressure and maintaining said pressure that there are no leaks in said pipeline.

2. A method according to claim 1 wherein the test pressure is read on a gauge mounted on a panel on said pig launcher/receiver.

3. A method according to claim 2 wherein said fill and test package is carried by said SV.

4. A method for commissioning a subsea pipeline while both ends are on the subsea floor between two subsea

manifolds, one of said manifolds having a subsea pig launcher/receiver with a pig and the other having a subsea pig receiver comprising:

using a SV, operating pumps on a fill and test package to force seawater behind said pig and move the pig from the pig launcher/receiver to the pig receiver;

pumping more water into said pipeline to a test pressure and maintaining said pressure to assure that there are no leaks in said pipeline;

using a SV, connecting a line from a compressed gas pack to said pig launcher/receiver for flow of compressed gas to force said pig to said pig launcher/receiver; and

pumping using a dewatering pump to suck water from said pipeline and moving said pig and compressed gas through the pipeline to said pig launcher/receiver.

5. A method according to claim 4 wherein said SV has a robotic arm for connecting and disconnecting pumps to said pipeline.

6. A method for the hydrostatic testing of a pipeline before its ends are connected wherein both ends are on the seafloor comprising:

using a submersible vehicle (SV) to operate pumps on a fill and test package to raise the internal pressure of the pipeline sufficiently for hydrostatic testing of the pipeline.

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